

ABSTRACT

A method for high precision charge pump regulation. The method of one embodiment comprises comparing an output feedback voltage with a reference voltage to determine whether the output feedback voltage is greater than or less than the reference voltage. In response to the comparison, either increasing a frequency for a clock signal if the output feedback voltage is less than the reference voltage, decreasing the frequency for the clock signal if the output feedback voltage is greater than the reference voltage; or disabling the clock signal if the output feedback voltage is much greater than the reference voltage. A pumped voltage is generated in response to changes to the clock signal.